

F-8042

Identifier: Naohiko TSUZUKI, et al.

**AMENDMENTS TO THE DRAWINGS:**

Please find accompanying this response a replacement sheet for Fig. 1 wherein amendments explained in the Remarks presented below are effected.

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**REMARKS**

The Examiner has objected to Figure 1. Applicant has corrected Figure 1 herein to overcome the objection.

Claims 1-8 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Aoki (U.S. Patent No. 4,044,653) as modified by Hehl (U.S. Patent No. 4,380,427) and further modified by Jacobson et al. (U.S. Patent No. 6,502,620) where Hehl is referenced for teaching a compact hydraulic system Jacobson is referenced for teaching a two-way hydraulic pump. In response to the rejections, Applicant provides the following traverse.

Regarding Aoki, the reference teaches pump P connected between a reservoir and a solenoid SOLa where the solenoid alters the feed direction to a piston chamber A to drive the piston 2 in a forward or reverse direction. Replacing the pump P of Aoki with a dual stage pump from Jacobson as suggested by the Examiner would not provide the present invention because there would still be no mechanism in Aoki to feed fluid to the return side of the piston chamber A. Accordingly, the proposed modification to Aoki by Hehl or Jacobson fails to teach each limitation of the claims. *In re Royka*, 490 F.2d 981 (CCPA 1974) (a prima facie case of obviousness is established only where the combination of cited references teaches or suggests each limitation in the claim).

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Applicant has further amended Claim 2 to distinguish over the prior art and, for example, Jacobson. Specifically, Claim 2 now recites the use of a plurality of two-way pumps to drive a single piston. In comparison, Jacobson teaches that each two-way pump is used to move a single piston. Accordingly, as indicated, Aoki as modified by Hehl or Jacobson fails to teach each claimed limitation so that the rejections have been overcome. *Royka*, 490 F.2d at 981.

Furthermore, Applicant respectfully asserts that the claims distinguish over Jacobson as follows. Jacobson teaches a two-way pump employing a swash plate and driven by a general motor. It is different from a servomotor as in the current application. Regarding supplying and discharging hydraulic fluid, in order to supply hydraulic fluid equivalent to the shortfall from a hydraulic fluid tank 36, Jacobson teaches a servo pump is employed. On the other hand, excessive hydraulic fluid is returned to the hydraulic fluid tank 36 of Jacobson via open/close valves 38, 40, common pipeline 20, and open/close valves 39.

In comparison, the present invention provides a check/one-way valve 16a for providing a simplified the pipeline. Also, a servomotor is employed, thereby enabling rotational control in injection and allowing torque control in maintaining pressure to be accurately and promptly performed.

Applicant respectfully requests a two month extension of time for responding to the Office Action. **The fee of \$450.00 for the extension is**

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In light of the foregoing, the application is now believed to be in proper  
form for allowance of all claims and notice to that effect is earnestly solicited.

Respectfully submitted,  
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